

IN THE CLAIMS

1. (Currently Amended) A system for coordinating the activities of one or more computers, comprising:

- a reload register adapted to transmit a reload value;
- a mission timer adapted to generate timer count values and to selectively generate an interrupt signal based upon said reload value transmitted from said reload register;
- a first timer capture register adapted to capture a first timer count value when a first PPS signal is received; and
- a second timer capture register adapted to capture a second timer count value when a second PPS signal is received; and
- software adapted to generate a consensus PPS value based upon said first timer count value and said second timer count value and to generate said reload value based upon said consensus PPS value;

wherein the one or more computers are configured to synchronize based at least partially on said reload value.

2. (Cancelled.)

3. (Original) The system as recited in claim 1, wherein said first PPS signal is generated by a local PPS signal generator.

4. (Cancelled.)

5. (Currently Amended) A method for coordinating the activities of one or computers, comprising:

capturing a first timer count value with a first timer capture register when a first PPS signal is received;

capturing a second timer count value with a second timer capture register when a second PPS signal is received;

generating a consensus timer count value based upon the first captured timer count value and the second captured timer count value;

generating a reload value based upon the consensus timer count value; and

generating an interrupt signal based upon the reload value;

wherein the one or more computers are configured to synchronize based at least partially on said interrupt signal.

6. (Cancelled.)

7. (Previously Presented) The system as recited in claim 1, wherein said second PPS signal is generated by a local PPS signal generator.

8. (Currently Amended) The system as recited in claim 1, wherein ~~the~~ a period of the interrupt signal is less than one second.

9. (Previously Presented) The system as recited in claim 8, wherein the period of the interrupt signal is approximately 10 ms.

10. (Currently Amended) The method as recited in claim 5, wherein ~~the~~ a period of the interrupt signal is less than one second.

11. (Previously Presented) The method as recited in claim 10, wherein the period of the interrupt signal is approximately 10 ms.

12. (Previously Presented) The system of claim 1, further comprising a computer adapted to be synchronized based on said consensus PPS value.

13. (Previously Presented) The system of claim 1, further comprising synchronizing a computer based on said interrupt signal.

14. (Currently Amended) A system for coordinating the activities of one or more computers, comprising:

a reload circuit adapted to transmit a reload value;

a mission circuit adapted to generate timer count values and to selectively generate an interrupt signal based upon said reload value transmitted from said reload circuit;

a first timer capture circuit adapted to capture a first timer count value when a first PPS signal is received; and

a second timer capture circuit adapted to capture a second timer count value when a second PPS signal is received; and

software adapted to generate a consensus PPS value based upon said first timer count value and said second timer count value and to generate said reload value based upon said consensus PPS value;

wherein the one or more computers are configured to synchronize based at least partially on said reload value.

15. (Previously Presented) The system as recited in claim 14, wherein said first PPS signal is generated by a local PPS signal generator.

16. (Currently Amended) A method for coordinating the activities of one or computers, comprising:

capturing a first timer count value with a first timer capture circuit when a first PPS signal is received;

capturing a second timer count value with a second timer capture circuit when a second PPS signal is received;

generating a consensus timer count value based upon the first captured timer count value and the second captured timer count value;

generating a reload value based upon the consensus timer count value; and

generating an interrupt signal based upon the reload value;

wherein the one or more computers are configured to synchronize based at least partially on said interrupt signal.

17. (Previously Presented) The system as recited in claim 1, wherein said second PPS signal is generated by a local PPS signal generator.

18. (Previously Presented) The system as recited in claim 1, wherein [the] a period of the interrupt signal is less than one second.

19. (Previously Presented) The system as recited in claim 18, wherein the period of the interrupt signal is approximately 10 ms.

20. (Previously Presented) The method as recited in claim 15, wherein a period of the interrupt signal is less than one second.

21. (Previously Presented) The method as recited in claim 20, wherein the period of the interrupt signal is approximately 10 ms.

22. (Previously Presented) The system of claim 14, further comprising a computer adapted to be synchronized based on said consensus PPS value.